Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Atty. Docket No. 036217/US/2 – 475387-00191

Serial No. 10/551,735

Applicant(s)

Guillermo J. Tearney et al.

Filing Date September 29, 2005 Confirmation No.

6550

U.S. PATENT DOCUMENTS

Exam. Init.				Docun	nent N	0.			Date	Name	Class	Subclass	Filing Date if Appropriate
/SAT/		6	5	0	1	8	7	8	December 31, 2002	Hughes et al.			
	2004	0	1	0	0	6	8	1	May 2004	Bjarklev et al. ^Φ			
 	2004	0	. 0	8	6	2	4	5	May 2004	Farroni et al. [©]			
	2002	0	1	7	2	4	8	5	November 2002	Keaton et al. [©]			
-	2002	0	1	8	8	2	0	4	December 12, 2002	McNamara et al. ΦΦ			
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		6	7	9	0	1	7	5	September 14, 2004	Furusawa et al.			
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		3	6.	0	1	4	8	0	August 24, 1971	Donald Sexton Randall ΦΦΦΦΦΦΦΦ			
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		5	8	6	2	2	7	3	January 19, 1999	Pelletier ΦΦΦΦΦΦΦΦΦΦΦΦ			
		4	4	7	9	4	9	9	October 30, 1984	Alfano ΦΦΦΦΦΦΦΦΦΦΦΦ			
1		4	0	3	0	8	2	7	June 21, 1977	Delhaye et al. ΦΦΦΦΦΦΦΦΦΦΦΦ			
	2004	0	1	0	0	6	3	1	May 27, 2004	Bashkansky et al. €€€			
		7	2	3	1	2	4	3	June 12, 2007	Tearney et al. €€€€			
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/SAT/		3	.9	4	1	1	2	1	March 2, 1976	Olinger €€€€€			

Examiner	/Samuel A. Turner/	Date Considered	12/06/2007

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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2	February 27, 1979	Wurster€€€€€	
2	August 26, 1986	Fritch et al.	
5	April 29, 2003	Aziz et al. €€€€€€	
1	May 30, 2002	Fauver et al.	
9	February 16, 1999	Hamm	

FOREIGN PATENT DOCUMENT

April 15, 1997

September 4, 2003

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/SAT/	2005	0	0	0	0	1	l	5	January 6, 2005	$WIPO^{\Phi\Phi}$				
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Φ	200	4	0	8	8	3	6	1	October 14, 2004	WIPO €€€				
/SAT/		2	0	3	0	3	1.	3	April 2, 1980	Great Britain EEEEEEE				

Examiner	/Samuel A. Turner/	Date Considered 12/0	06/2007

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Form	PTO-144	19 U.S.	Dep	artment of (Commerce
(REV.	2-82)	Patent	and	Trademark	Office

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^Φ References cited in Office Action dated February 2, 2007 for U.S. Patent Application No. 11/174,425 ΦΦ References cited in International Search Report PCT/US2006/031905 ΦΦΦ References cited in Office Action dated March 28, 2007 for U.S. Patent Application No. 11/241,907 ΦΦΦΦ References cited in International Search Report PCT/US2007/060481 ΦΦΦΦΦ References cited in Office Action dated May 23, 2007 for U.S. Patent Application No. 10/406,751 ΦΦΦΦΦΦΦ References cited in International Search Report PCT/US2007/060717 ΦΦΦΦΦΦΦΦ References cited in International Search Report PCT/US2007/060319 ΦΦΦΦΦΦΦΦΦ References cited in Office Action dated August 10, 2007 for U.S. Patent Application No. 10/997,789 ΦΦΦΦΦΦΦΦΦΦΦ References cited in International Search Report PCT/US2007/060657 φφφφφφφφφφφ References cited in International Search Report PCT/US2007/061815 ΦΦΦΦΦΦΦΦΦΦΦΦ References cited in International Search Report PCT/US2007/062465 € References cited in International Search Report PCT/US2007/066017 €€ References cited in European Patent Office Search Report for Application No. 01991092.6-2305 EEE References cited in International Search Report PCT/US2007/060670 EEEE Reference cited in Office Action dated October 11, 2007 for U.S. Patent Application No. 11/534,095 EEEEE References cited in Office Action dated October 9, 2007 for U.S. Patent Application No. 09/709,162 EEEEEE References cited in Notice of Allowance dated October 3, 2007 for U.S. Patent Application No. 11/225,840 EEEEEEE References cited in Office Action dated October 30, 2007 for U.S. Patent Application No. 11/670,069

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

Hariri, Lida P. et al. "Endoscopic Optical Coherence Tomography and Laser-Induced Fluorescence Spectroscopy in a Murine Colon Cancer Model", Laser in Surgery and Medicine, Vol. 38, 2006, pages 305-313

PCT International Search Report and Written Opinion for Application No. PCT/US2006/031905

PCT International Search Report and Written Opinion for Application No. PCT/US2006/031905 dated May 3, 2007

PCT International Search Report and Written Opinion for Application No. PCT/US2007/060481 dated May 23, 2007

PCT International Search Report and Written Opinion for Application No. PCT/US2007/060717 dated May 24, 2007

PCT International Search Report and Written Opinion for Application No. PCT/US2007/060319 dated June 6, 2007

Examiner Date Considered 12/06/2007

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September 29, 2005 2877

U.S. PATENT DOCUMENTS

*Exam. Init.				Docum	nent N	0.			Date	Name	Class	Subclass	Filing Date if Appropriate
/SAT/		6	2	4	9	3	4	9	June 19, 2001	Lauer******			
/SAT/	2002	0	0	8	5	2	0	9	July 4, 2002	Mittleman et al.			
/SAT/		7	0	0	6	2	3	1	February 28, 2006	Ostrovsky et al.			
/SAT/		6	1	3	4	0	.0	3	October 17, 2000	Tearney et al.			

FOREIGN PATENT DOCUMENT

	Document No.						Dat	e	Country	Class	SubClass	Transl Yes	

*******References cited in Office Action dated December 6, 2006 for U.S. Patent Application No. 10/997,789

*******References cited in Office Action dated December 18, 2006 for U.S. Patent Application No. 10/501,276

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

/SAT/	Copy of Office Action dated December 6, 2006 for U.S. Patent Application No. 10/997,789
/SAT/	Elliott, K. H. "The use of commercial CCD cameras as linear detectors in the physics undergraduate teaching laboratory", European Journal of Physics 19, 1998, pages 107-117
/SAT/	Lauer, V. "New approach to optical diffraction tomography yielding a vector equation of diffraction tomography and a novel tomographic microscope", Journal of Microscopy Vol. 205, Issue 2. 2002, pages 165-176 ********
/SAT/	Yu, P. et al. "Imaging of tumor necroses using full-frame optical coherence imaging", Proceedings of SPIE Vol. 4956, 2003, pages 34-41*******
/SAT/	Zhao, Y. et al. "Three-dimensional reconstruction of in vivo blood vessels in human skin using phase-resolved optical Doppler tomography", IEEE Journal of Selected Topics in Quantum Electronics 7.6 (2001): 931-935*******

Examiner	/Samuel A. Turner/	Date Considered 12/06/2007		
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Page 2 of 5

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office

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(Use several sheets if necessary)

Applicant(s)
Guillermo J. Tearney et al.

Filing Date September 29, 2005 Group 2877

/SAT/	Copy of Office Action dated December 18, 2006 for U.S. Patent Application No. 10/501,276
	Devesa, Susan S. et al. (1998) "Changing Patterns in the Incidence of Esophegeal and Gastric Carcinoma in the United States." <u>American Cancer Society</u> Vol. 83, No. 10 pp. 2049-2053
	Barr, H et al. (2005) "Endoscopic Therapy for Barrett's Oesophaugs" Gut Vol. 54:875-884
	Johnston, Mark H.(2005) "Technology Insight: Ablative Techniques for Barrett's Esophagus – Current and Emerging Trends" www.Nature.com/clinicalpractice/gasthep
	Falk, Gary W. et al. (1997) "Surveillance of Patients with Barrett's Esophagus for Dysplasia and Cancer with Ballon Cytology" Gastrorenterology Vol. 112, pages 1787-1797
	Sepchler, Stuart Jon. (1997) "Barrett's Esophagus: Should We Brush off this Balloning Problem?" Gastroenterology Vol 112, pages 2138-2152
	Froehly, J. et al. (2003) "Multiplexed 3D Imaging Using Wavelength Encoded Spectral Interferometry: A Proof of Principle" Optics Communications Vol 222, pages 127-136.
	Kubba A.K. et al. (1999) "Role of p53 Assessment in Management of Barrett's Esophagus" <u>Digestive Disease and Sciences</u> Vol. 44, No 4. pages 659-667
	Reid, Brian J. (2001) "p53 and Neoplastic Progression in Barrett's Esophagus" The American Journal of Gastroenterology Vol. 96, No 5, pages 1321-1323
	Sharma, P. et al.(2003) "Magnification Chromoendoscopy for the Detection of Intestinal Metaplasia and Dysplasia in Barrett's Oesophagus" Gut Vol. 52, pages 24-27
	Kuipers E.J et al. (2005) "Diagnostic and Therapeutic Endoscopy" <u>Journal of Surgical Oncology</u> Vol. 92, pages 203-209
	Georgakoudi, Irene et al. (2001) "Fluorescence, Reflectance, and Light-Scattering Spectroscopy for Evaluating Dysplasia in Patients with Barrett's Esophagus" Gastroenterology Vol. 120, pages 1620-1629
$\sqrt{}$	Adrain, Alyn L. et al. (1997) "High-Resolution Endoluminal Sonography is a Sensitive Modality for the Identification of Barrett's Meaplasia" <u>Gastrointestinal Endoscopy</u> Vol. 46, No. 2, pages 147-151
/SAT/	Canto, Marcia Irene et al (1999) "Vital Staining and Barrett's Esophagus" Gastrointestinal Endoscopy Vol. 49, No. 3, part 2, pages 12-16

Examiner	/Samuel A. Turner/	Date Considered	12/06/2007		

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO-1449 U.S. Department of CommerceMAY 2 1 2007 (REV. 2-82) Patent and Trademark Office

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Serial No. 10/551,735

BY APPLICANT (Use several sheets if necessary)

Guillermo J. Tearney et al.

Filing Date Group September 29, 2005 2877

/SAT/	Evans, John A. et al. (2006) "Optical Coherence Tomography to Identify Intramucosal Carcinoma and High-Grade Dysplasia in Barrett's Esophagus" Clinical Gastroenterology and Hepatology Vol. 4, pages 38-3
	Poneros, John M. et al. (2001) "Diagnosis of Specialized Intestinal Metaplasia by Optical Coherence Tomography" Gastroenterology Vol. 120, pages 7-12
	Ho, W. Y. et al. (2005) "115 KHz Tuning Repetition Rate Ultrahigh-Speed Wavelength-Swept Semiconductor Laser" Optics Letters Col. 30, No. 23, pages 3159-3161
	Brown, Stanley B. et al. (2004) "The Present and Future Role of Photodynamic Therapy in Cancer Treatment" The Lancet Oncology Vol. 5, pages 497-508
	Boogert, Jolanda Van Den et al. (1999) "Endoscopic Ablation Therapy for Barrett's Esophagua with High-Grade Dysplasia: A Review" The American Journal of Gastroenterology Vol. 94, No. 5, pages 1153-1160
	Sampliner, Richard E. et al. (1996) "Reversal of Barrett's Esophagus with Acid Suppression and Multipolar Electrocoagulation: Preliminary Results" <u>Gastrointestinal Endoscopy</u> Vol. 44, No. 5, pages 532-535
	Sampliner, Richard E. (2004) "Endoscopic Ablative Therapy for Barrett's Esophagus: Current Status" Gastrointestinal Endoscopy Vol. 59, No. 1, pages 66-69
	Soetikno, Roy M. et al. (2003) "Endoscopic Mucosal resection" Gastrointestinal Endoscopy Vol. 57, No. 4, pages 567-579
	Ganz, Robert A. et al. (2004) "Complete Ablation of Esophageal Epithelium with a Balloon-based Bipolar Electrode: A Phased Evaluation in the Porcine and in the Human Esophagus" Gastrointestinal Endoscopy Vol. 60, No. 6, pages 1002-1010
	Pfefer, Jorje at al. (2006) "Performance of the Aer-O-Scope, A Pneumatic, Self Propelling, Self Navigating Colonoscope in Animal Experiments" Gastrointestinal Endoscopy Vol. 63, No. 5, pages AB223
	Overholt, Bergein F. et al. (1999) "Photodynamic Therapy for Barrett's Esophagus: Follow-Up in 100 Patients" Gastrointestinal Endoscopy Vol. 49, No. 1, pages 1-7
\bigvee	Vogel, Alfred et al. (2003) "Mechanisms of Pulsed Laser Ablation of Biological Tissues" American Chemical Society Vol. 103, pages 577-644
/SAT/	McKenzie, A. L. (1990) "Physics of Thermal Processes in Laser-Tissue Interaction" Phys. Med. Biol Vol. 35, No. 9, pages 1175-1209

Examiner	/Samuel A. Turner/	Date Considered	12/06/2007

Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Page 4 of 5 Serial No. 10/551,735 Group 2877
10/551,735 Group
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icrosurgery by Selective -527
Tissue Effects During 447-2454
toring of IR Laser s 69-78
Size Based on Reflectance
ications for Reflectance obiology. B: Biol Vol. 16, in Surgery and Medicine
Pulse Ablation of Tissue"
Pulsed Laser Tissue pics in Quantum
ermal Therapy Based on urnal of Thermophysics
Optical Property Changes -11
ser Pulses: Thermal 36, pages 270-280
Viability After Argon can Academy of
ic Plaques by Laser

Examiner /Samuel A. Turner/ Date Considered 12/06/2007

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO-1449 U.S. Department of Commerce MAY 2 1 2007

Applicant(s)

Guillermo J. Tearney et al.

Filing Date September 29, 2005 Group 2877

/SAT/	Zimnyakov, Dmitry A. et al (2002) "Speckle-Contrast Monitoring of Tissue Thermal Modification" Applied Optics Vol. 41, No. 28, pages 5989-5996		
	Morelli, J.G., et al (1986) "Tunable Dye Laser (577 nm) Treatment of Port Wine Stains" <u>Lasers in Surgery and Medicine</u> Vol. 6, pages 94-99		
	French, P.M.W. et al. (1993) "Continuous-wave Mode-Locked Cr ⁴⁺ : YAG Laser" Optics Letters Vol. 18, No. 1, pages 39-41.		
	Sennaroglu, Alphan at al. (1995) "Efficient Continuous-Wave Chromium-Doped YAG Laser" Journal of Optical Society of America Vol. 12, No. 5, pages 930-937		
	Bouma, B et al. (1994) "Hybrid Mode Locking of a Flash-Lamp-Pumped Ti: Al ₂ O ₃ Laser" Optics Letters Vol. 19, No. 22, pages 1858-1860		
	Bouma, B et al. (1995) "High Resolution Optical Coherence Tomography Imaging Using a Mode-Locked Ti: Al ₂ O ₃ Laser Source" Optics Letters Vol. 20, No. 13, pages 1486-1488		
	Fernández, Cabrera Delia et al. "Automated detection of retinal layer structures on optical coherence tomography images", Optics Express Vol. 13, No. 25, October 4, 2005, pages 10200-10216		
SAT/	Ishikawa, Hiroshi et al. "Macular Segmentation with optical coherence tomography", Investigative Ophthalmology & Visual Science, Vol. 46, No. 6, June 2005, pages 2012-2017		

4819-9851-0337\1

Examiner /Samuel A. Turner/ Date Considered 12/06/2007

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